

ABSTRACT OF THE DISCLOSURE

A centrifugal blood pump apparatus has a centrifugal pump section including an impeller having a first magnetic material therein and rotating inside the housing to feed a fluid by a centrifugal force generated during a rotation thereof; an impeller rotational torque generation section having a rotor having a magnet for attracting the first magnetic material of the impeller thereto, and a motor for rotating the rotor; and a dynamic pressure groove formed at a portion, of an inner surface of the housing, located at a rotor-disposed side thereof. The centrifugal blood pump apparatus further includes an electromagnet for attracting the impeller in a direction opposite to a direction in which the magnet of the rotor attracts the impeller and helping the impeller levitate.